

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193548

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-RW-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39705 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

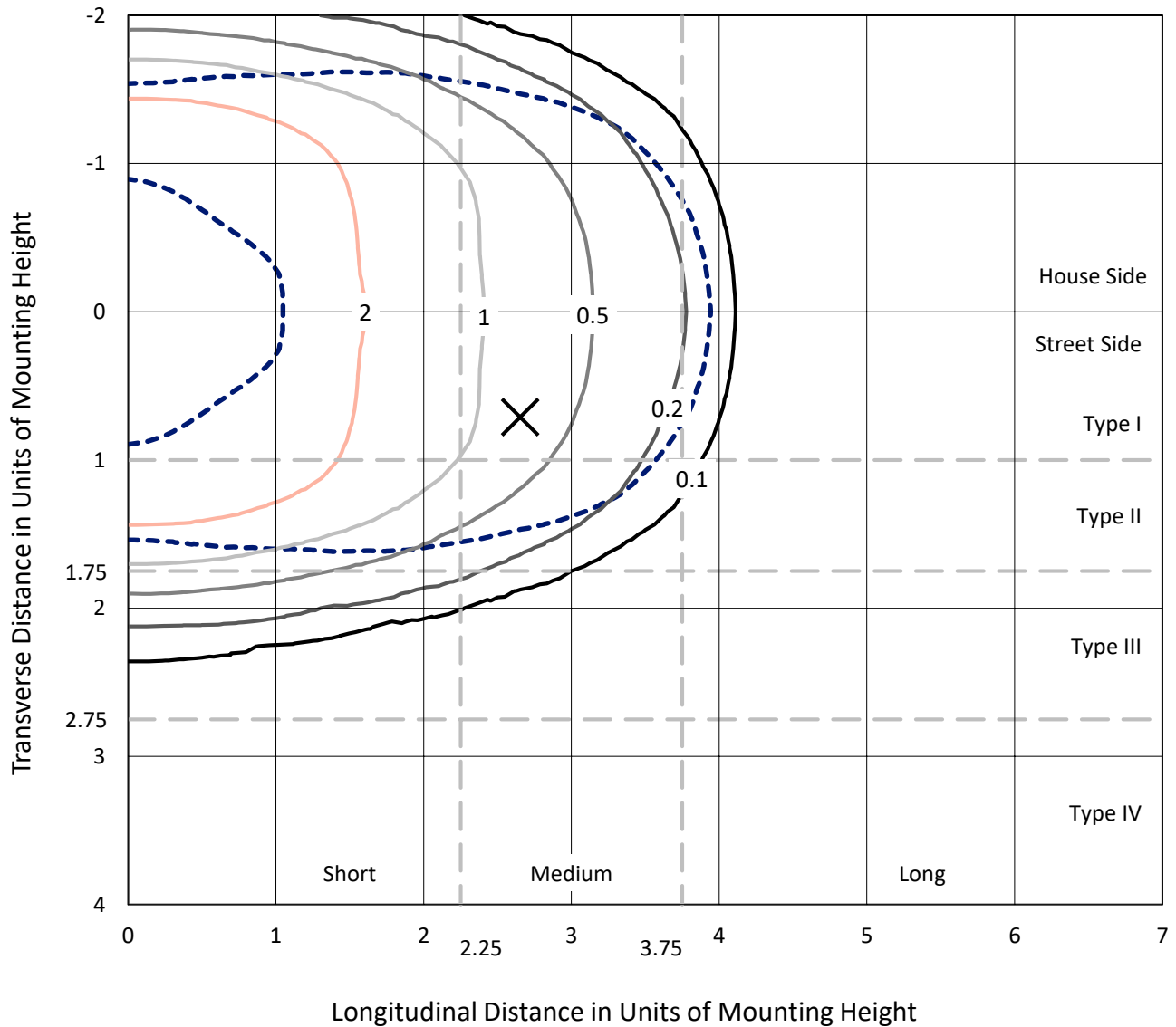


REPORT NUMBER: P193548

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

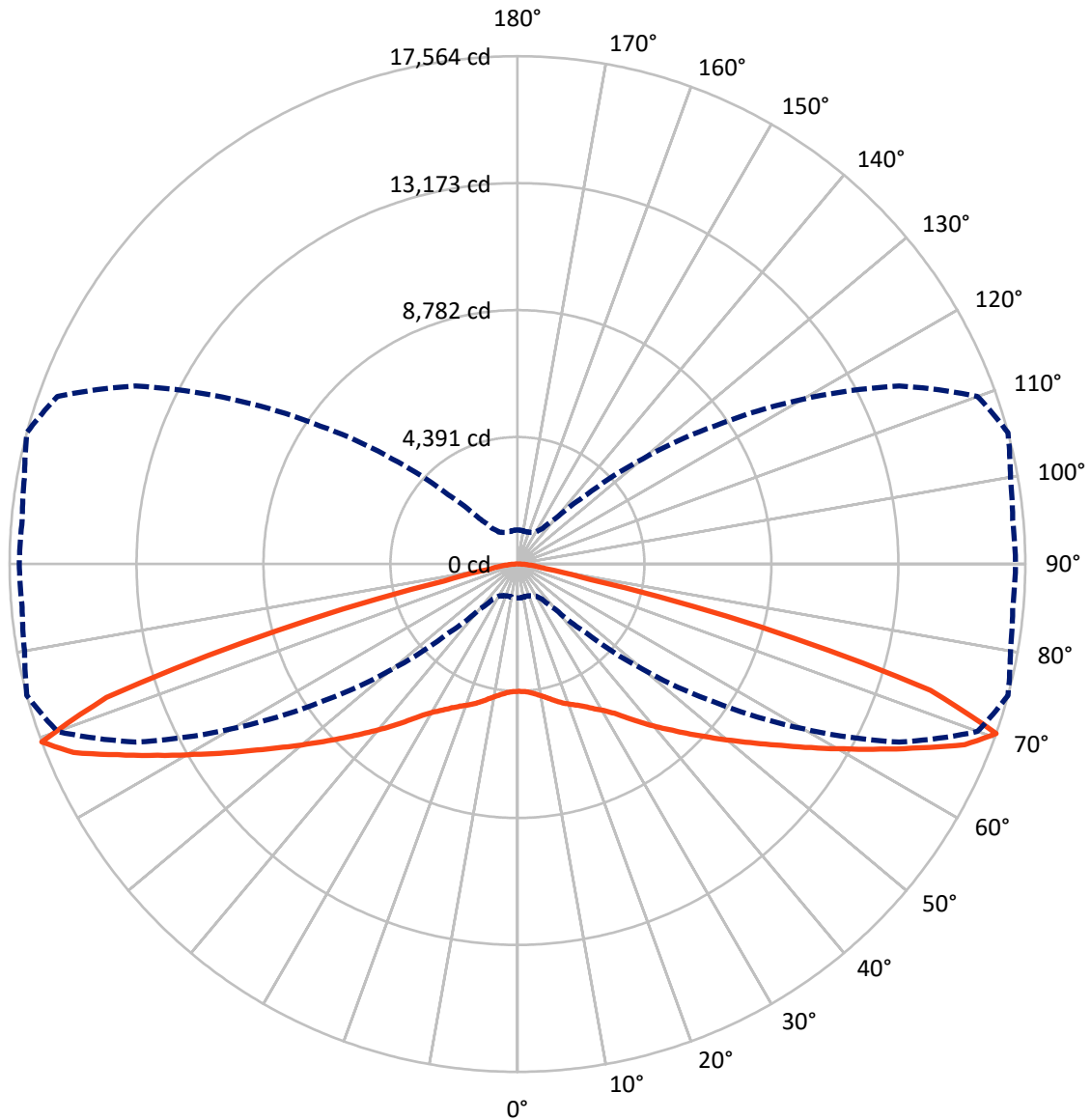
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193548  
CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193548

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19852.5	0.0	19852.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19852.5	0.0	19852.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39705.0	0.0	39705.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.4	1.1
10°-20°	1312.5	3.3
20°-30°	2470.2	6.2
30°-40°	4374.3	11.0
40°-50°	7315.3	18.4
50°-60°	10193.8	25.7
60°-70°	9453.1	23.8
70°-80°	3767.4	9.5
80°-90°	396.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39705.0	100.0
0°-180°	39705.0	100.0



REPORT NUMBER: P193548

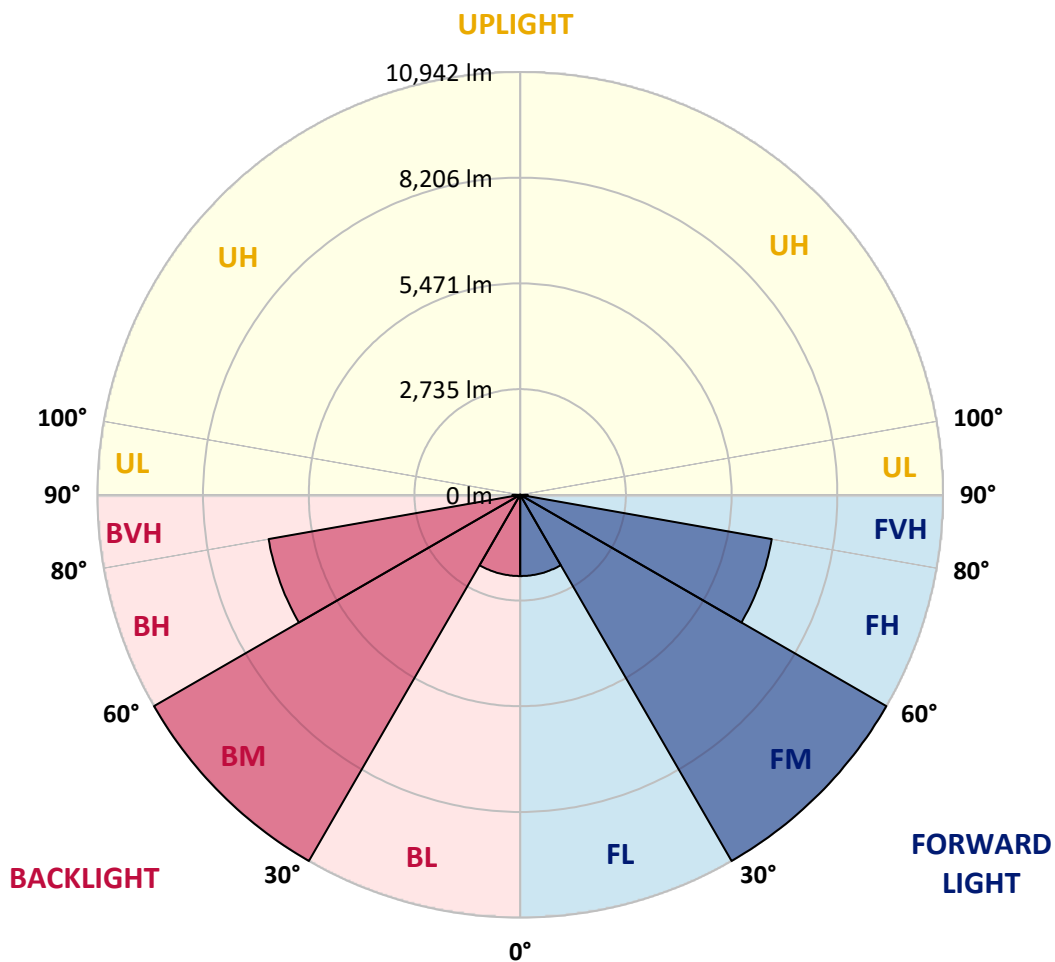
CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2102.5	5.3			
FM	(30°-60°)	10941.7	27.6			
FH	(60°-80°)	6610.2	16.6			G3/7500
FVH	(80°-90°)	198.0	0.5			G2/225
BL	(0°-30°)	2102.5	5.3	B3/2500		
BM	(30°-60°)	10941.7	27.6	B5		
BH	(60°-80°)	6610.2	16.6	B5		G5
BVH	(80°-90°)	198.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium





REPORT NUMBER: P193548

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
2.5°	4396.7	4393.0	4396.7	4394.8	4398.6	4398.6	4402.3	4409.8	4409.8	4415.5	4413.6
5°	4353.5	4351.7	4357.3	4362.9	4368.6	4379.8	4391.1	4408.0	4421.1	4430.5	4439.9
7.5°	4269.1	4269.1	4276.6	4289.7	4302.9	4327.3	4353.5	4387.3	4421.1	4449.2	4473.6
10°	4199.7	4203.4	4212.8	4235.3	4257.8	4295.4	4331.0	4379.8	4426.7	4473.6	4511.2
12.5°	4158.4	4164.0	4180.9	4214.7	4252.2	4302.9	4357.3	4419.2	4471.8	4528.1	4565.6
15°	4171.5	4175.3	4199.7	4241.0	4289.7	4353.5	4426.7	4499.9	4561.8	4621.9	4672.6
17.5°	4244.7	4250.3	4278.5	4325.4	4376.1	4451.1	4529.9	4612.5	4689.4	4757.0	4818.9
20°	4376.1	4381.7	4417.3	4468.0	4528.1	4605.0	4683.8	4770.1	4856.5	4927.8	4997.2
22.5°	4561.8	4571.2	4605.0	4655.7	4723.2	4805.8	4899.6	4991.6	5074.1	5139.8	5201.7
25°	4805.8	4826.4	4858.3	4914.6	4985.9	5061.0	5162.3	5256.2	5335.0	5396.9	5441.9
27.5°	5151.1	5179.2	5203.6	5258.0	5327.5	5398.8	5500.1	5582.7	5657.7	5717.8	5751.6
30°	5608.9	5637.1	5661.5	5714.0	5777.8	5845.4	5941.1	6014.3	6061.2	6108.1	6106.2
32.5°	6164.4	6194.4	6203.8	6260.1	6325.8	6399.0	6485.3	6526.6	6564.1	6569.7	6535.9
35°	6785.5	6800.5	6838.1	6913.1	6988.2	7048.2	7130.8	7151.4	7151.4	7123.3	7048.2
37.5°	7466.7	7476.1	7528.6	7613.1	7690.0	7751.9	7808.2	7849.5	7828.9	7768.8	7643.1
40°	8213.6	8230.4	8305.5	8380.6	8466.9	8525.1	8585.1	8592.6	8572.0	8483.8	8313.0
42.5°	8926.6	8941.7	9016.7	9134.9	9247.5	9328.2	9384.5	9395.8	9330.1	9249.4	9037.4
45°	9540.3	9579.7	9677.3	9816.1	9979.4	10093.8	10170.8	10202.7	10144.5	10039.4	9793.6
47.5°	10026.3	10065.7	10204.6	10369.7	10572.4	10758.1	10885.7	10953.3	10938.3	10859.5	10591.1
50°	10382.8	10420.4	10570.5	10773.1	11009.6	11240.4	11458.1	11619.5	11675.8	11640.1	11394.3
52.5°	10424.1	10486.0	10662.4	10934.5	11242.3	11557.5	11867.2	12141.1	12326.9	12355.1	12173.0
55°	9848.0	9909.9	10153.9	10557.3	11015.2	11529.4	12024.8	12486.4	12852.3	13040.0	12944.3
57.5°	8489.4	8600.1	8857.2	9330.1	10003.8	10773.1	11563.2	12383.2	13128.2	13625.5	13721.2
60°	6505.9	6637.3	6896.2	7399.1	8149.8	9067.4	10122.0	11334.2	12649.7	13768.1	14436.1
62.5°	4173.4	4297.2	4569.3	5006.6	5618.3	6612.9	7744.4	9183.7	10951.4	12717.2	14308.5
65°	2144.9	2212.4	2355.0	2619.6	3096.3	3839.4	4854.6	6290.1	8311.1	10489.8	12790.4
67.5°	1358.6	1371.7	1403.6	1441.2	1563.1	1820.2	2293.1	3188.2	4850.8	7123.3	9816.1
70°	1174.7	1174.7	1159.7	1154.1	1169.1	1204.7	1277.9	1486.2	2047.3	3381.5	5661.5
72.5°	1075.3	1064.0	1037.7	1017.1	1013.3	1013.3	1028.3	1060.2	1150.3	1377.4	2216.2
75°	990.8	958.9	923.3	898.9	889.5	880.1	878.2	883.8	902.6	938.3	1058.4
77.5°	887.6	846.3	805.0	780.6	769.4	756.2	745.0	731.8	722.5	733.7	786.3
80°	763.7	716.8	684.9	669.9	658.7	639.9	615.5	593.0	572.3	568.6	600.5
82.5°	615.5	561.1	563.0	568.6	547.9	521.7	495.4	471.0	435.4	416.6	435.4
85°	497.3	469.1	456.0	491.7	461.6	422.2	380.9	337.8	281.5	236.4	257.1
87.5°	193.3	193.3	289.0	444.7	399.7	326.5	279.6	238.3	148.2	114.5	116.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193548

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-8030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
2.5°	4411.7	4415.5	4413.6	4411.7	4411.7	4409.8	4411.7	4411.7
5°	4445.5	4454.9	4454.9	4458.6	4458.6	4460.5	4462.4	4460.5
7.5°	4496.2	4513.0	4524.3	4537.4	4539.3	4541.2	4544.9	4541.2
10°	4546.8	4580.6	4605.0	4629.4	4640.7	4644.4	4648.2	4648.2
12.5°	4610.6	4657.5	4700.7	4743.9	4764.5	4775.8	4775.8	4783.3
15°	4715.7	4762.6	4813.3	4871.5	4907.1	4925.9	4931.5	4931.5
17.5°	4864.0	4905.2	4948.4	5004.7	5049.7	5074.1	5079.8	5077.9
20°	5036.6	5076.0	5100.4	5136.1	5175.5	5203.6	5211.1	5211.1
22.5°	5233.6	5256.2	5259.9	5271.2	5303.1	5340.6	5357.5	5361.2
25°	5451.3	5456.9	5441.9	5441.9	5462.6	5498.2	5515.1	5517.0
27.5°	5732.8	5704.6	5667.1	5654.0	5667.1	5708.4	5729.0	5736.5
30°	6083.7	6016.1	5929.8	5882.9	5875.4	5929.8	5967.4	5973.0
32.5°	6485.3	6387.7	6273.2	6177.5	6153.1	6186.9	6231.9	6230.1
35°	6961.9	6845.6	6706.7	6584.7	6528.4	6562.2	6626.0	6633.5
37.5°	7511.7	7359.7	7200.2	7046.4	6958.2	6967.5	7035.1	7057.6
40°	8125.4	7928.3	7727.5	7521.1	7395.4	7371.0	7453.6	7466.7
42.5°	8782.1	8528.8	8275.5	8020.3	7858.9	7821.4	7917.1	7911.4
45°	9482.1	9159.3	8862.8	8581.4	8390.0	8333.7	8412.5	8412.5
47.5°	10234.6	9836.8	9484.0	9165.0	8956.7	8876.0	8951.0	8956.7
50°	11032.1	10609.9	10195.2	9840.5	9590.9	9487.7	9585.3	9600.3
52.5°	11825.9	11414.9	10996.5	10591.1	10289.0	10163.3	10275.9	10324.7
55°	12630.9	12227.5	11827.8	11431.8	11073.4	10925.1	11045.2	11107.2
57.5°	13481.0	13107.5	12726.6	12326.9	11981.6	11750.8	11878.4	11961.0
60°	14477.4	14158.4	13762.5	13321.5	12972.4	12737.9	12811.1	12884.2
62.5°	15265.6	15389.4	15053.5	14543.1	14094.6	13794.4	13865.7	13942.6
65°	14884.6	16155.0	16453.4	15937.3	15316.2	14849.0	14818.9	14858.3
67.5°	12441.4	14909.0	16708.6	17200.2	16680.5	16031.2	15911.1	15969.2
70°	8322.4	11396.2	14571.2	16935.7	17564.3	17312.8	17194.6	17230.3
72.5°	3997.0	6637.3	9885.5	13028.7	14942.8	15821.0	16102.5	16239.5
75°	1461.8	2634.6	4764.5	7179.6	8667.7	10033.8	10925.1	11289.2
77.5°	882.0	1064.0	1521.9	2291.2	2595.2	2904.9	2784.8	2844.8
80°	653.0	737.5	835.1	938.3	972.0	972.0	934.5	904.5
82.5°	457.9	512.3	559.2	615.5	630.5	602.4	495.4	394.1
85°	294.6	319.0	339.7	375.3	365.9	349.0	234.6	208.3
87.5°	135.1	153.9	161.4	178.3	170.8	163.3	116.3	97.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)